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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on 8-21-02.

BY: Suzanne Shadley  
Suzanne Shadley

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	Bergh, et al.	
Serial No.:	09/728,263	Group Art Unit: 1764
Filed:	11/28/2000	
For:	Methods and Apparatus for Fluid Distribution in Microfluidic Systems	Examiner: Unknown

Assistant Commissioner for Patents  
Washington, D.C. 20231

**TRANSMITTAL LETTER**

Sir:

Transmitted herewith (check all that apply):

- |  |   |
|--|---|
| <input type="checkbox"/> Preliminary Amendment             | <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement |
| <input type="checkbox"/> Response/Amendment                | <input type="checkbox"/> Petition Under 37 CFR 1.97(d)(2)                         |
| <input type="checkbox"/> Response/Amendment After Final    | <input type="checkbox"/> Formal Drawings  |
| <input type="checkbox"/> Supplemental Amendment            | <input type="checkbox"/> Declaration Under 37 CFR 1.131                           |
| <input type="checkbox"/> Affidavits/Declarations           | <input type="checkbox"/> Declaration Under 37 CFR 1.132                           |
| <input type="checkbox"/> Declaration and Power of Attorney | <input type="checkbox"/> Terminal Disclaimer                                      |
| <input type="checkbox"/> Supplemental Declaration          | <input type="checkbox"/> Small Entity Statement                                   |
| <input type="checkbox"/> Associate Power of Attorney       | <input type="checkbox"/> Request to Correct Filing Receipt                        |
| <input type="checkbox"/> Change of Correspondence Address  | <input type="checkbox"/> Appeal   |
| <input type="checkbox"/> Associate Power of Attorney       | <input type="checkbox"/> Petition   |
| <input type="checkbox"/> Response to Missing Parts         | <input type="checkbox"/> Status Letter  |

to be filed in the above-identified patent application.

☒ No fee is required.

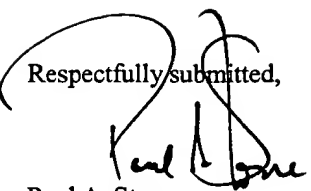
☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 C.F.R. § 1.16, in connection with the paper(s) transmitted herewith, or credit any overpayment of same, to Deposit Account No. 50-0496.

A duplicate copy of this Transmittal Letter is transmitted herewith.

Date: Aug. 21, 2002

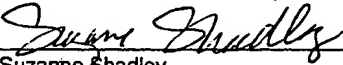
Symyx Technologies, Inc.  
3100 Central Expressway  
Santa Clara, California 95051  
Tel.: (408) 764-2000  
Fax: (408) 773-4029

Respectfully submitted,

  
Paul A. Stone  
Reg. No. 38,628  
Attorney for Applicant(s)

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Bergh et al.

Serial No.: 09/728,263

Filed: 11/28/2000

For: Methods and Apparatus for Fluid  
Distribution in Microfluidic Systems

Group Art 1764  
Unit:

Examiner: Unknown

Assistant Commissioner for Patents and Trademarks  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

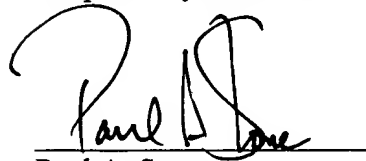
Applicant requests that the references cited herein be considered in connection with the examination of this application and listed on the front of any patent that issues. The references are listed on the attached modified PTO-1449 form. Copies of the references were previously cited and submitted to the Patent and Trademark Office in connection with the parent application, U.S. Serial No. 09/518,794. As such, under 37 CFR section 1.98(d), no further copies are provided.

Applicant believes that no fee is required for submission of this statement.

If a fee is required, the Commissioner is authorized to deduct such fee from Deposit Account No. 50-0496.

Respectfully submitted,

*Aug. 21, 1992*

A handwritten signature in black ink, appearing to read "Paul A. Stone", written over a horizontal line.

Paul A. Stone

Registration No. 38,628

Attorney for Applicant

Symyx Technologies  
3100 Central Expressway  
Santa Clara, CA 95051  
Tel.: (408) 764-2000  
Fax: (408) 773-4029

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449	ATTORNEY'S DOCKET NO.: 99-1CIP1DIV2	APPLICATION NO.: 09/728,263
	APPLICANT: Bergh, et al.	
	FILING DATE: 11/28/2000	GROUP: 1764

### US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,086,740	7/11/00	Kennedy	204	601	10/29/98
	6,071,478	6/6/00	Chow	422	81	2/2/99
	3,797,202	3/19/74	Neulander et al.	55	158	8/27/71
	4,386,505	6/7/83	Little	62	514 R	3/4/82
	4,392,362	7/12/83	Little	62	514 R	5/1/81
	4,516,632	5/14/85	Swift et al.	165	167	8/31/82
	5,016,707	5/21/91	Nguyen	165	167	12/28/89
	5,145,579	9/8/92	Eguchi et al.	210	198.2	9/16/91
	5,209,906	5/11/93	Watkins et al.	422	200	5/10/91
	5,230,866	7/27/93	Shartle et al.	422	103	3/1/91
	5,296,775	3/22/94	Cronin et al.	310	309	9/24/92
	5,354,460	10/11/94	Keamey et al.	210	198.2	1/28/93
	5,385,712	1/31/95	Sprunk	422	190	12/7/93
	5,388,635	2/14/95	Gruber et al.	165	80.4	5/8/92
	5,580,523	12/3/96	Bard	422	50	4/1/94
	5,587,128	12/24/96	Wilding et al.	422	50	11/14/94
	5,611,214	3/18/97	Wegeng et al.	62	498	7/29/94
	5,639,423	6/17/97	Northrup et al.	122	50	8/31/92
	5,658,413	8/19/97	Kaltenbach et al.	156	272.8	6/7/95
	5,699,157	12/16/97	Parce	356	344	7/16/96
	5,852,495	12/22/98	Parce	356	344	9/30/97
	5,858,195	1/12/99	Ramsey	204	601	
	5,869,004	2/9/99	Parce et al.	422	100	6/9/97
	5,908,552	6/1/99	Dittmann et al.	210	198.2	10/10/97
	5,942,443	8/24/99	Parce et al.	436	514	6/28/96
	5,948,227	9/7/99	Dubrow	204	455	12/17/97
	5,955,028	9/21/99	Chow	422	63	8/14/97
	5,957,579	9/28/99	Kopf-Sill et al.	366	340	9/30/98
	5,965,001	10/12/99	Chow et al.	204	600	7/3/97

Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449			ATTORNEY'S DOCKET NO.:		APPLICATION NO.:	
			99-1CIP1DIV2		09/728,263	
			APPLICANT: Bergh, et al.			
			FILING DATE: 11/28/00		GROUP: 1764	
<b>US PATENT DOCUMENTS</b>						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,965,410	10/12/99	Chow et al.	435	91.2	11/25/97
	5,976,336	11/2/99	Dubrow et al.	204	453	4/25/97
	5,989,402	11/23/99	Chow et al.	204	601	8/29/97
	6,001,229	12/14/99	Ramsey	204	451	8/1/94
	6,004,515	12/21/99	Parce et al.	422	100	10/27/98
	6,010,607	1/4/00	Ramsey	204	435	9/16/98
	6,010,608	1/4/00	Ramsey	204	453	9/16/98
	6,042,709	3/28/00	Parce et al.	204	453	11/24/98
	6,042,710	3/28/00	Dubrow	204	454	5/11/99
	6,046,056	4/4/00	Parce et al.	436	514	12/6/96
	6,068,684	5/30/00	Overton	96	104	9/11/97
	6,068,752	5/30/00	Dubrow et al.	204	604	8/11/99
	6,074,725	6/13/00	Kennedy	428	188	12/10/97
	6,087,180	7/11/00	Gleaves	436	37	10/28/96
	6,100,541	8/8/00	Nagle et al.	250	573	2/24/98
	6,123,798	9/26/00	Gandhi et al.	156	292	5/6/98
	6,132,685	10/17/00	Kercso et al.	422	104	8/10/98

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	APPLICANT: Bergh, et al.	
	FILING DATE: 11/28/00	GROUP: 1764

FOREIGN DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION ?	FILING DATE
	WO 99/64836	12/16/99	PCT	G01N 1/10	No	6/7/99
	WO 00/45172	8/3/00	PCT	G01N 33/558	No	1/28/00
	GB 2 327 754	2/3/99	United Kingdom	G01N 31/10	No	7/26/97
	WO 98/56956	12/17/98	PCT	C12Q 1/70	No	6/9/98
	WO 99/10221	1/14/99	PCT	B01L 3/00	No	6/29/98
	WO 99/30817	6/24/99	PCT	B01J 19/00	No	12/15/97
	WO 99/34205	7/8/99	PCT	G01N 30/86	No	12/29/98
	WO 99/43432	9/2/99	PCT	B01L 3/00 G01N 27/26, 27/447	No	2/23/99
	WO 99/59716	11/25/99	PCT	B01J 19/00	Yes	6/12/99
	WO 99/64160	12/16/99	PCT	B01L 3/02, 3/00 // B01J 19/00	No	6/2/99
	WO 00/22424	4/20/00	PCT	G01N 27/26, 27/447	No	10/12/99
	WO 0042212	7/20/00	PCT	C12Q 1/00, 1/26, G01N 33/53, 33/567	No	1/18/00
	WO 00/43766	7/27/00	PCT	G01N 27/26	No	1/19/00
	WO 00/46594	8/10/00	PCT	G01N 27/26	No	2/2/00
	WO 00/50172	8/31/00	PCT	B01L 3/100, C12Q 1/68	No	2/22/00
	WO 00/07026	2/10/00	PCT	G01N 35/00, E21B 49/00	No	7/26/99
	WO 01/12327	2/22/01	PCT	B01L 3/00	No	8/10/00
	WO 96/35810	11/14/96	PCT	C12Q 1/68, 1/70	No	5/9/96
	WO 99/19724	4/22/99	PCT	G01N 31/10	No	10/8/98
	WO 00/32512	6/8/00	PCT	C01B 3/50, B01D 71/02, B01J 19/00	No	12/2/99
	WO 00/32308	6/8/00	PCT	B01J 19/00	No	12/3/99
	WO 99/48599	9/30/99	PCT	B01F 5/06	No	3/22/99
	WO 96/15576	5/23/96	PCT	H02K 44/02	No	11/9/95
	WO 00/21666	4/20/00	PCT	B01L 3/02	No	10/12/99
	EP 971 225	1/12/00	EP	G01N 21/17	Yes	7/7/99

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Suzanne Shadley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bergh, et al.

Serial No.: 09/728,263

Filed: 11/28/2000

For: Methods and Apparatus for Fluid  
Distribution in Microfluidic  
Systems

Group Art Unit: 1764

Examiner: Unknown

Assistant Commissioner for Patents  
Washington, D.C. 20231

TRANSMITTAL LETTER

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- |  |  |
|--|--|
| <input type="checkbox"/> Preliminary Amendment             | <input checked="" type="checkbox"/> Information Disclosure Statement |
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| <input type="checkbox"/> Change of Correspondence Address  | <input type="checkbox"/> Appeal                                      |
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Date: May 28, 2002

Symyx Technologies, Inc.  
3100 Central Expressway  
Santa Clara, California 95051  
Tel.: (408) 764-2000  
Fax: (408) 773-4029

Respectfully submitted,



Paul A. Stone  
Reg. No. 38,628  
Attorney for Applicant(s)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bergh et al.

Serial No.: 09/728,263

Filed: 11/28/2000

For: Methods and Apparatus for Fluid  
Distribution in Microfluidic Systems

Group Art 1764  
Unit:

Examiner: Unknown

Assistant Commissioner for Patents and Trademarks  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

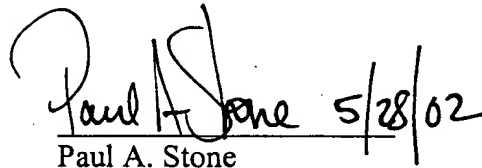
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Registration No. 38,628  
Attorney for Applicant

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Santa Clara, CA 95051  
Tel.: (408) 764-2000  
Fax: (408) 773-4029

# INFORMATION DISCLOSURE CITATION

PTO-1449

ATTORNEY'S DOCKET NO.:

99-1CIP1DIV2

APPLICATION NO.:

09/728,263

APPLICANT:

Bergh, et al.

FILING DATE:

November 28, 2000

GROUP:

1764

## US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	3,431,077	3/4/69	Danforth	23	253	7/18/66
	4,099,923	7/11/78	Milberger	23	254	1/17/77
	4,832,914	5/23/89	Tam et al.	422	130	2/8/88
	5,089,232	2/18/92	May	422	83	1/24/90
	5,304,354	4/19/94	Finley et al.	422	196	11/30/92
	5,356,756	10/18/94	Cavicchi, et al.	430	315	10/26/92
	5,534,328	7/9/96	Ashmead et al.	428	166	12/2/93
	5,593,642	1/14/97	DeWitt et al.	422	131	6/5/95
	5,603,351	2/18/97	Cherukuri et al.	137	597	6/7/95
	5,690,763	11/25/97	Ashmead et al.	156	60	6/6/95
	5,776,359	7/7/98	Schultz et al.	252	62.51	5/8/95
	5,811,062	9/22/98	Wegeng et al.	422	129	2/23/96
	5,842,787	12/1/98	Kopf-Sill et al.	366	340	10/9/97
	5,843,385	12/1/98	Dugan	422	191	4/2/97
	5,872,010	2/16/99	Karger et al.	436	173	7/3/96

## FOREIGN DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION ?	FILING DATE
	DD 234 941 A1		Germany		No	
	DE 196 32 779 A1		Germany	G01N 35/00	Yes	
	DE 198 05 719 A1		Germany	B01J 35/04	Yes	
	DE 198 06 848 A1		Germany	B01J 35/02	Yes	
	DE 198 09 477 A1	9/16/99	Germany	G01N 31/10	Yes	3/6/98
	DE 198 55 894 A1		Germany	B01J 35/04	No	
	DE 27 14 939 B2		Germany		No	
	WO 00/14529	3/16/00	WIPO	G01N 31/02	No	9/3/99
	WO 97/32208	9/4/97	WIPO	G01N 31/10	No	2/25/97
	WO 98/07206	02/19/98	WIPO	G01N 31/10	Yes	8/12/97
	WO 98/16949	4/23/98	WIPO	H01J 49/40	Yes (Even pages only)	9/26/97
	WO 99/41005	8/19/99	WIPO	B01J 19/00	Yes	2/11/99

Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449	<b>ATTORNEY'S DOCKET NO.:</b> 99-1CIP1DIV2	<b>APPLICATION NO.:</b> 09/728,263
	<b>APPLICANT:</b> Bergh, et al.	
	<b>FILING DATE:</b> November 28, 2000	<b>GROUP:</b> 1764
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages Etc.)</b>		
G.M. Greenway, S.J. Haswell, D.O. Morgan, et al., "The Use of a Novel Microreactor for High Throughput Continuous Flow Organic Synthesis," Sensors and Actuators B-Chemical, 2000, 63, p. 153.		
Burns et al., "Development of a Microreactor for Chemical Production," AIChE 2 <sup>nd</sup> International Conference on Microreaction Technology, pp. 39-44 (1998)		
Cooke, "Decreasing Gas Chromatography Analysis Times using a Multicapillary Column," Abs. 403P, Book of Abstracts, PittCon' 96 (1996)		
Ehrfeld et al., "Potentials and Realizations of Microreactors," DECHEMA Monographs Vol. 132, pp. 1-28 (1995)		
Hanak et al., "Optimization Studies of Materials in Hydrogenated Amorphous Silicon Solar Cells," Photovoltaic Solar Energy Conference, Berlin (1979)		
Honick et al., "Heterogeneously Catalyzed Reactions in a Microreactor," DECHEMA Monographs Vol. 132, pp. 93-107 (1995)		
Johansson et al., "Nanofabrication of Model Catalysts and Simulations of their Reaction Kinetics," J. Vac. Sci. Technol., 17:1 (Jan/Feb 1999)		
Löwe et al., "Microreactor Concepts for Heterogeneous Gas Phase Reactions," AIChE 2 <sup>nd</sup> International Conference on Microreaction Technology, pp. 63-73 (1998)		
Matlosz et al., "Microsectioned Electrochemical Reactors for Selective Partial Oxidation," AIChE 2 <sup>nd</sup> International Conference on Microreaction Technology, pp. 54-59 (1998)		
S.M. Sze, "Semiconductor Sensors," Chap. 2, pp.17-96, John Wiley & Sons, Inc. (1994)		
Srinivasan et al., "Micromachined Reactors for Catalytic Partial Oxidation Reactions," AIChE Journal, Vol. 43, No. 11, pp. 3059-3069 (1997)		
Tonkovich et al., "The Catalytic Partial Oxidation of Methane in a Microchemical Reactor," AIChE 2 <sup>nd</sup> International Conference on Microreaction Technology, pp. 45-53 (1998)		
van den Berg et al., "Modular Concept for Miniature Chemical Systems," DECHEMA Monographs Vol. 132, pp. 109-123 (1995)		
van Dover et al., "Discovery of a Useful Thin-Film Dielectric Using a Composition-Spread Approach," Nature, Vol. 392, No. 12, pp. 162-164 (1998)		
Bunshah, "Handbook of Deposition Technologies for Films and Coatings," 2 <sup>nd</sup> Ed., Noyes Publications (1994)		

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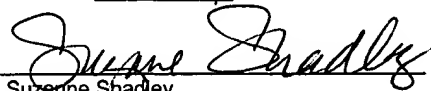


Attorney Docket No. 99-1CIP1DIV2  
PATENT

CERTIFICATE OF MAILING

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BY:

  
Suzanne Shadley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bergh et al.

Serial No.: 09/728,263

Filed: 11/28/00

For: Methods And Apparatus For Fluid  
Distribution In Microfluidic Systems

Confirmation No. 7497

Group Art Unit: 1743

Examiner: Quan, E.

Santa Clara, California  
April 23, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

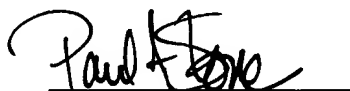
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants request that the references cited herein be considered in connection with the examination of this application. The references are listed on the attached PTO-1449 form.

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Symyx Technologies, Inc.  
3100 Central Expressway  
Santa Clara, CA 95051  
Tel.: (408) 773-4027

10 P E J U 88  
APR 29 2004  
PATENT & TRADEMARK

<b>SUPPLEMENTAL INFORMATION DISCLOSURE CITATION</b>  PTO-1449	ATTORNEY'S DOCKET NO.: 99-1CIP1DIV2	APPLICATION NO.: 09/728,263
	APPLICANT: Bergh et al.	
	FILING DATE: November 28, 2000	GROUP: 1743

**US PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,086,740	7/11/00	Kennedy	204	601	10/29/98

**FOREIGN DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUB CLASS	TRANSLATION Yes No	
	DD 234 941	4/16/96	Germany	G01N	31/10	X	
	DE 27 14 939	11/29/79	Germany	G01N	31/10	X	

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages Etc.)**

	Van den Berg et al., "Modular Concept For Miniature Chemical Systems," DECHEMA Monographs Vol. 132, pp. 109-123 (1995)

EXAMINER:	DATE CONSIDERED:
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Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.